### PROJECT DESCRIPTION

#### GENERAL

A THIS PORTION OF THE PROJECT INVOLVES MODIFICATION AND INSTALLATION OF A CONTROLLER AND TRAFFIC SIGNALS AT THE INTERSECTION OF MD 450 AT TRINITY EPISCOPAL CHURCH/SCHOOL ENTRANCE IN PRINCE GEORGE'S COUNTY. MD 450 IS ASSUMED TO RUN IN AN EAST/WEST DIRECTION.

### INTERSECTION OPERATION

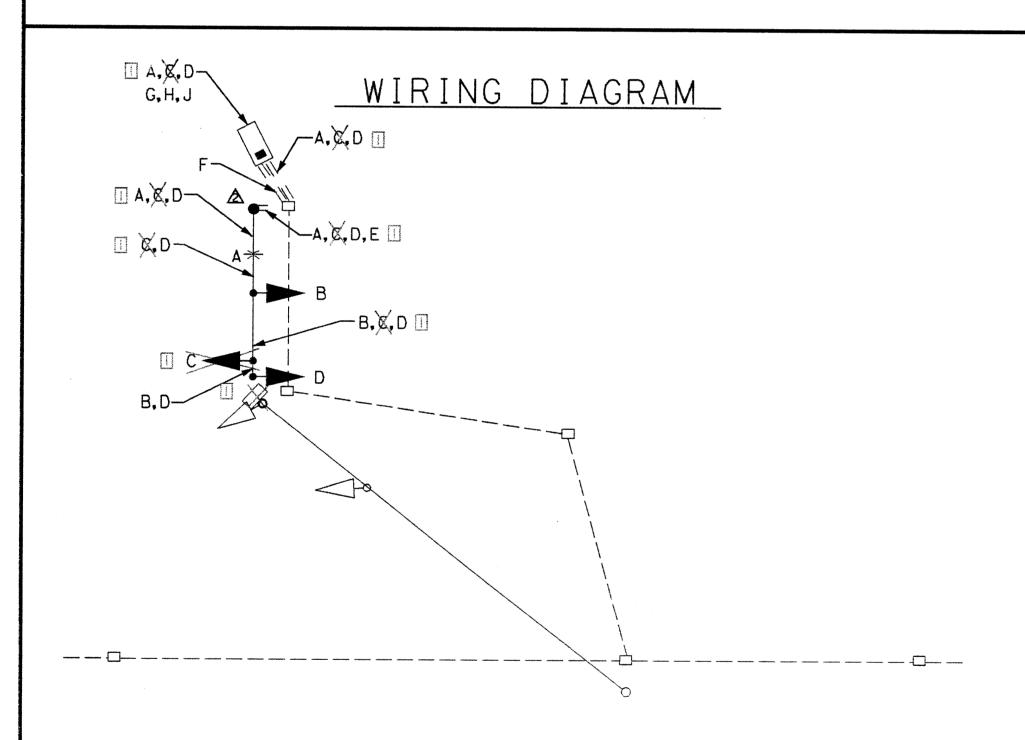
THE INTERSECTION WILL CONTINUE TO OPERATE IN A NEMA-SINGLE-PHASE SEMI ACTUATED MODE. THE MOVEMENT ON TRINITY EPISCOPAL CHURCH/SCHOOL WILL OPERATE ONLY WHEN MANUALLY ACTUAUTED.

#### CONTROLLER REQUIREMENTS

A INSTALL A FULL-TRAFFIC-ACTUATED, SOLID STATE EIGHT PHASE CONTROLLER WITH SYSTEM PACKAGE, INTERSECTION MONITOR WITH BATTERY BACK-UP FOR PHONE DROP, TELEMETRY MODULE, ISOLATION BOARD AND SPECIAL RELAY HOUSED IN NEMA SIZE "6" BASE MOUNTED CABINET.

#### SPECIAL NOTE

ALL UTILITIES SHOWN ON THESE PLANS ARE SCHEMATIC AND ARE NOT TO BE CONSIDERED COMPLETE BECAUSE THESE UTILITIES MAY BE MODIFIED PRIOR TO AND DURING CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING ALL UTILITY COMPANIES PRIOR TO CONSTRUCTION SO THAT ALL UTILITIES MAY BE LOCATED IN THE FIELD. IF THE CONTRACTOR PERCEIVES THAT A CONFLICT BETWEEN THE UTILITIES AND THE TRAFFIC SIGNAL EQUIPMENT WILL OCCUR, THE CONTRACTOR SHALL NOTIFY THE PROJECT MANAGER IMMEDIATELY.



- (NO.12 AWG)
- ELECTRICAL CABLE 5-CONDUCTOR (NO. 14 AWG)
- ELECTRICAL CABLE 7-CONDUCTOR

## EQUIPMENT LIST "A"

A. EQUIPMENT TO BE SUPPLIED BY THE SHA

CAT CODE NUMBER	SPEC. SECTION	QUANTITY	DESCRIPTION
<b>▲</b> 971017	816	I EA.	EIGHT PHASE FULL TRAFFIC ACTUATED SOLID STATE DIGITAL CONTROLLER WITH SYSTEM PACKAGE HOUSED IN A NEMA SIZE "6" BASE MOUNTED CABINET
<b>▲</b> 973023	813	□22) <b>K</b> (S.F.	SHEET ALUMINUM SIGN TO CONSIST OF: -I EA. ASSOCIATED SHIELD ASSEMBLY (34 30 IN. X 51 IN.)-POLE MOUNT  II -I EA. SI-I (FYG) (36 IN. X 42 IN.)-MAST ARM MOUNT

### PHASE CHART

1 2 3 4

A	PHASE 2+6	FLY	FLY	FL Y	FLY	4
A	2+6 CHANGE	Y	Y	Y	Y	
A	PHASE 4	R	R	R	R	1
	FLASHING OPERATION	FLY	FL Y	FLY	FLY	<del>+</del>

# EQUIPMENT LIST "B"

B. EQUIPMENT TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR

CAT CODE	SPEC.		
NUMBER_	SECTION	QUANTITY	DESCRIPTION
203030	205	<b>▲</b> 2 C.Y.	TEST PIT EXCAVATION
585450	555	52 L <b>.</b> F.	REMOVAL OF PAVEMENT MARKING ANY WIDTH
585620	556	150 L.F.	12 IN. HEAT APPLIED THERMOPLASTIC WHITE
			PAVEMENT MARKING
585624	556	<b>▲</b> 50 L.F.	24 IN. HEAT APPLIED THERMOPLASTIC WHITE
			PAVEMENT MARKING
801004	804	6 C.Y.	CONCRETE FOR SIGNAL FOUNDATION
802501	805	▲ 15 L.F.	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
810010	810	45 L.F.	ELECTRICAL CABLE I-CONDUCTOR (NO. 4 AWG)
<b>A</b> 813006	813	II S.F.	RELOCATE EXISTING SIGN
<b>▲</b> 813015	813	□ 22 <b>)( S.F.</b>	INSTALL OVERHEAD SIGN
831010	806	I EA.	250 WATT LUMINAIRE WITH PHOTOCELL
837001	804	<b>∆</b> 2 EA.	GROUND ROD 3/4 IN. X IO FT. LENGTH
838003	807	I EA.	CONTROL AND DISTRIBUTION EQUIPMENT (120/240V.
		•	I PHASE, 3 WIRE SYSTEM)
860265	814	IEA.	RELOCATE EXISTING SIGNAL HEAD
860270	814	♠ 2 EA.	8 IN. VEHICULAR TRAFFIC SIGNAL HEAD SECTION
860272	814	<b>▲</b> 4 EA.	12 IN. VEHICULAR TRAFFIC SIGNAL HEAD SECTION
861107	810	35 L.F.	ELECTRICAL CABLE 5-CONDUCTOR (NO.14 AWG)
861108	810	▲ 135 L.F.	ELECTRICAL CABLE 7-CONDUCTOR (NO.14 AWG)
861116	810	♠ 95 L.F.	ELECTRICAL CABLE 2-CONDUCTOR (NO. 12 AWG)
866104	818	I EA.	20 FT. LIGHTING ARM FOR TRAFFIC SIGNAL STRUCTURE
866204	818	I EA.	27 FT. STEEL POLE WITH 60 FT. MAST ARM
<b>▲</b> 870I63	805	II L.F.	3 IN. SCHEDULE 80 RIGID PVC ELECTRICAL
			CONDUIT-TRENCHED
870166	805	▲ 131 L.F.	4 IN. SCHEDULE 80 RIGID PVC ELECTRICAL
			CONDUIT-TRENCHED
<b>▲</b> 871117	816	I EA.	INSTALL CONTROLLER AND CABINET-BASE MOUNT
800000	XXX	I L.S.	REMOVE AND DISPOSE OF EXISTING MATERIAL

## EQUIPMENT LIST "C"

C. ALL REMOVED SIGNAL MATERIALS SHALL BECOME PROPERTY OF THE CONTRACTOR.

T REDLINE NO. 1 5/6/02

ADDENDUM #2 10/11/2001

THE WILSON T. BALLARD CO.

CONSULTING ENGINEERS

OWINGS MILLS, MARYLAND

MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety Office of Traffic & Safety

TRAFFIC ENGINEERING DESIGN DIVISION

GENERAL INFORMATION SHEET MD 450 - MD 193 TO STONYBROOK DRIVE MD 450 AT TRINITY EPISCOPAL CHURCH/SCHOOL PHASE III

RAWN BY: OCTOBER 2001 LOG MILE:

COUNTY: PRINCE GEORGE'S
LOG MILE: 16045011.95

SHEET NO. T.I.M.S. NO. D 538 408F OF 545

ELECTRICAL CABLE 2-CONDUCTOR

NO. 6 AWG STRANDED BARE COPPER

& G,H,J ELECTRICAL CABLE I-CONDUCTOR